Hi-Speed Industrial Service
7030 Ryburn Dr
Millington, Tn 38053
901-873-5300

AC Recondition Repair Report

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Hillcrest Camshaft
5502 West 65th Str
Little Rock, AR

Priorities Found: **1 - High** **2 - Good**

General

1.	Job Number	**97723**
2.	Report Date	
3.	Customer	**HILLCREST CAMSHAFT**

Name Plate Information

4. Manufacturer P5

5.	Model	
6.	Serial Number	**F1309246780**
7.	Horsepower	**20**
8.	KW	
9.	Volts	**230460**
10.	Amps	
11.	RPM	**3500**
12.	Frame	**215YZ**
13.	Enclosure	**TE**
14.	Cycles	**60 HZ**
15.	Phase	

	16.	Service Factor	
	17.	Motor Mount Position	
Initial Inspection			
	18.	Number of Leads	**3**
	19.	Lead Length	
	20.	Lead Size	
	21.	Lead Condition	
	22.	Lead Markings	
	23.	Lug Size, Condition, and Type	
	24.	Winding RTD's	
	25.	Winding Rtd's Condition	
	26.	Shaft Run Out	
	27.	Does Shaft Turn Freely	
	28.	Does Shaft Have Visible Damage	
	29.	Bearing Rtd's	
	30.	Bearing Rtd's Condition	
	31.	Contamination	
	32.	Frame Condition	
●	33.	Fan Condition	**(P) Pass**
	34.	Broken or missing components	
Initial Electric Test			
	35.	Resistance to Ground	
	36.	Winding Resistance 1-2	
	37.	Winding Resistance 2-3	
	38.	Winding Resistance 1-3	
	39.	Resistive Imbalance	
	40.	Hi-Pot	
	41.	Surge Test	
	42.	Stator Condition	
	43.	Failure Location	
Initial Rotor Inspection			
	44.	Rotor Type	
	45.	Air Gap <10% Variation	
	46.	Number of Rotor Bars	
	47.	Number of Broken Rotor Bars	
	48.	Growler Test	
	49.	Rotor Condition	
Mechanical Inspection			
	50.	Bearing Manufacture	
	51.	Bearing DE Size	
	52.	Bearing DE Type	
	53.	DE Bearing Qty.	
	54.	Bearing ODE Size	
	55.	Bearing ODE Type	
	56.	ODE Bearing Qty.	
	57.	Insulated Bearing	
	58.	Lubrication Type	
	59.	Grease Condition	

60.	Bearing Retainers	
61.	Shaft Grounding Device	
62.	DE Seal	
63.	DE Seal Type/Size	
64.	ODE Seal	
65.	ODE Seal Type/Size	

Root Cause of Failure

66.	Component Failure	**O.D.E bearing housing.**
67.	Cause of Failure ***Housing fit too large and out of tolerance. Has excessive up and down play.***	
68.	Comments ***Re-sleeve housing fit.***	
69.	Service Technician	**Terrence Holland**

Machine Fit Inspection Report

	70.	Shaft Run Out	
	71.	Initial Shaft Run Out	
	72.	Final Shaft Run Out	
	73.	DE Bearing Shaft Fit	
	74.	DE Initial Shaft Bearing Fit Size 1	
	75.	DE Initial Shaft Bearing Fit Size 2	
	76.	DE Initial Shaft Bearing Fit Size 3	
	77.	DE Finial Shaft Bearing Fit Size 1	
	78.	DE Finial Shaft Bearing Fit Size 2	
	79.	DE Finial Shaft Bearing Fit Size 3	
●	80.	ODE Bearing Shaft Fit	**(P) Pass**
	81.	ODE Initial Shaft Bearing Fit Size 1	
	82.	ODE Initial Shaft Bearing Fit Size 2	
	83.	ODE Initial Shaft Bearing Fit Size 3	
	84.	ODE Finial Shaft Bearing Fit Size 1	
	85.	ODE Finial Shaft Bearing Fit Size 2	
	86.	ODE Finial Shaft Bearing Fit Size 3	
	87.	DE Air Seal Shaft Fit	
	88.	DE Initial Air Seal Shaft Size	
	89.	DE Final Air Seal Shaft Size	
	90.	ODE Air Seal Shaft Fit	
	91.	ODE Initial Air Seal Shaft Size	
	92.	ODE Final Air Seal Shaft Size	
	93.	DE Endbell Fit	
	94.	DE Initial Endbell Fit Size 1	
	95.	DE Initial Endbell Fit Size 2	
	96.	DE Initial Endbell Fit Size 3	
	97.	DE Final Endbell Fit Size 1	
	98.	DE Finial Endbell Fit Size 2	

99.	DE Final Endbell Fit Size 3		
100.	DE Endbell Fit Insulated		
101.	DE Endbell Air Seal Fit		
102.	Initial Endbell Air Seal Fit Size		
103.	Finial Endbell Air Seal Fit Size		
104.	ODE Endbell Fit	**(F) Fail**	
	ODE shaft has excessive up and down play. Bearing play is excessively loose in the housing and machine work is required.		
105.	ODE Initial Endbell Fit Size 1		
106.	ODE Initial Endbell Fit Size 2		
107.	ODE Initial Endbell Fit Size 3		
108.	ODE Final Endbell Fit Size 1		
109.	ODE Final Endbell Fit Size 2		
110.	ODE Final Endbell Fit Size 3		
111.	ODE Endbell Fit Insulated		
112.	ODE Endbell Air Seal Fit		
113.	ODE Initial Endbell Seal Fit Size		
114.	ODE Finial Endbell Seal Fit Size		
115.	Foot Flatness		
116.	Foot Condition		
117.	Flange Condition		
118.	Service Technician	**Terrence Holland**	

Balancing Report

119.	Balance Type	
120.	Balance Operating Speed	
121.	Start Left End	
122.	Start Right End	
123.	Balancing Specification	
124.	Finish Left End	
125.	Finish Right End	
126.	Service Technician	

Assembly and Final Test

127.	Meggar Testing Reading	
128.	Surge Test	
129.	Hi-Pot	
130.	Winding Resistance 1-2	
131.	Winding Resistance 2-3	
132.	Winding Resistance 1-3	
133.	Test Run Voltage Phase A	
134.	Test Run Amps A	
135.	Test Run Voltage Phase B	
136.	Test Run Amps B	
137.	Test Run Voltage Phase C	

138.	Test Run Amps C
139.	DE Horizontal Vibration Reading
140.	DE Vertical Vibration Reading
141.	DE Axial Vibration Reading
142.	ODE Horizontal Vibration Reading
143.	ODE Vertical Vibration Reading
144.	ODE Axial Vibration Reading
145.	Ambient Temp at start of Test Run
146.	Temp at 5 minutes
147.	Temp at 10 minutes
148.	Temp at 15 minutes
149.	Temp at 20 minutes
150.	Temp at 25 minutes
151.	Temp at 30 minutes
152.	Temp at 35 minutes
153.	Temp at 40 minutes
154.	Temp at 45 minutes
155.	Temp at 50 minutes
156.	Temp at 55 minutes
157.	Temp at 60 minutes
158.	Motor Paint
159.	Service Technician